

**Table 8A.** Quality-control summary of matrix spike recoveries of volatile organic compounds, gasoline additives, NDMA, perchlorate, and 1,2,3-trichloropropane in samples collected for the Monterey Bay and Salinas Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study, California, July to October 2005.

[Acceptable recovery range is between 70 and 130 percent]

Constituent (common name)	Number of spiked samples	Minimum recovery (percent)	Maximum recovery (percent)	Median recovery (percent)
1,1,1,2-Tetrachloroethane	9	88	98	96
1,1,1-Trichloroethane (TCA) <sup>1</sup>	9	96	104	98
1,1,2,2-Tetrachloroethane	9	89	107	98
1,1,2-Trichloroethane	9	79	100	89
1,1,2-Trichlorotrifluoroethane (CFC-113)	9	84	105	96
1,1-Dichloroethane <sup>1</sup>	9	94	103	98
1,1-Dichloroethylene (DCE)	9	88	102	94
1,1-Dichloropropene	9	95	138	102
1,2,3,4-Tetramethylbenzene	9	97	121	106
1,2,3,5-Tetramethylbenzene (isodurene)	9	111	124	115
1,2,3-Trichlorobenzene <sup>1</sup>	9	94	118	102
1,2,3-Trichloropropane	9	87	107	97
1,2,3-Trimethylbenzene <sup>1</sup>	9	97	106	97
1,2,4-Trichlorobenzene	9	88	106	97
1,2,4-Trimethylbenzene	9	102	121	111
1,2-Dibromo-3-chloropropane (DBCP)	9	91	113	102
1,2-Dibromoethane	9	88	102	92
1,2-Dichlorobenzene	9	87	109	100
1,2-Dichloroethane	9	98	107	107
1,2-Dichloropropane	9	89	96	94
1,3,5-Trimethylbenzene	9	98	109	104
1,3-Dichlorobenzene	9	89	104	98
1,3-Dichloropropane	9	98	107	98
1,4-Dichlorobenzene	9	87	104	98
1,2,3-Trichloropropane (TCP) <sup>2</sup>	4	88	103	90
2,2-Dichloropropane	9	83	91	87
2-Chlorotoluene	9	91	106	100
2-Hexanone	9	93	108	98
3-Chloropropene	9	100	110	103
4-Chlorotoluene	9	91	104	100
4-Isopropyl-1-methylbenzene	9	94	107	99
4-Methyl-2-pentanone	9	88	103	92
Acetone 1,3	9	97	128	107
Acrylonitrile	9	97	106	106
Benzene	9	100	113	104
Bromobenzene	9	88	98	94
Bromochloromethane <sup>1</sup>	9	94	111	103
Bromodichloromethane	9	96	106	100
Bromoethene	9	96	128	112
Bromoform (tribromomethane) <sup>1</sup>	9	82	100	93
Bromomethane	9	86	139	118
Butylbenzene	9	83	94	88
Carbon disulfide <sup>1</sup>	9	71	95	88
Chlorobenzene	9	88	104	94
Chloroethane	9	88	106	88
Chloroform (trichloromethane) <sup>1</sup>	9	94	126	100
Chloromethane	9	88	119	100
<i>cis</i> -1,2-Dichloroethylene <sup>1</sup>	9	94	106	102
<i>cis</i> -1,3-Dichloropropene	9	82	92	86
Dibromochloromethane <sup>1</sup>	9	89	107	95
Dibromomethane	9	91	111	100
Dichlorodifluoromethane (CFC-12)	9	59	91	88

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[Acceptable recovery range is between 70 and 130 percent]

Constituent (common name)	Number of spiked samples	Minimum recovery (percent)	Maximum recovery (percent)	Median recovery (percent)
Dichloromethane (methylene chloride)	9	95	107	101
Diethyl ether	9	100	113	100
Diisopropyl ether <sup>1</sup>	9	90	105	97
Ethyl methacrylate	9	86	98	90
2-Butanone (Ethyl methyl ketone)	9	98	119	104
Ethylbenzene	9	91	113	102
Hexachlorobutadiene	9	84	99	92
Hexachloroethane	9	89	106	95
Isopropylbenzene	9	96	115	104
<i>m</i> - and <i>p</i> -Xylene <sup>1</sup>	9	95	118	107
Methyl acetate	4	96	106	102
Methyl acrylate	9	94	108	102
Methyl acrylonitrile	9	97	115	106
Methyl iodide	9	80	152	124
Methyl methacrylate	9	78	90	84
Methyl <i>tert</i> -butyl ether (MTBE) <sup>1,3</sup>	9	94	110	94
Naphthalene	9	89	128	104
Nitrosodimethylamine (NDMA) <sup>2</sup>	4	81	95	91
<i>n</i> -Propylbenzene	9	91	109	98
<i>o</i> -Ethyl toluene	9	93	107	102
<i>o</i> -Xylene <sup>1</sup>	9	93	105	100
Perchlorate <sup>2</sup>	4	40	84	78
<i>sec</i> -Butylbenzene	9	94	109	96
Styrene	9	64	109	100
Methyl <i>tert</i> -pentyl ether <sup>1</sup>	9	91	109	97
<i>tert</i> -Amyl alcohol	4	83	97	94
<i>tert</i> -Butyl alcohol	4	84	95	92
<i>tert</i> -Butyl ethyl ether (ETBE) <sup>1</sup>	9	87	115	102
<i>tert</i> -Butylbenzene	9	104	117	110
Tetrachloroethylene (PCE) <sup>1</sup>	9	88	121	96
Tetrachloromethane (carbon tetrachloride) <sup>1</sup>	9	91	104	98
Tetrahydrofuran <sup>1</sup>	9	107	128	112
Toluene <sup>1</sup>	9	91	100	96
<i>trans</i> -1,2-Dichloroethylene	9	96	106	104
<i>trans</i> -1,3-Dichloropropene	9	84	99	92
<i>trans</i> -1,4-Dichloro-2-butene	9	91	121	108
Trichloroethylene (TCE) <sup>1</sup>	9	90	100	94
Trichlorofluoromethane (CFC-11)	9	85	101	96
Vinyl chloride	9	96	125	106

<sup>1</sup>Constituents detected in ground-water samples.

<sup>2</sup>Constituents analyzed by Montgomery Watson-Harza Laboratory, Monrovia, California, on the Constituents of Special Interest Schedule.

<sup>3</sup>Constituents on schedules 2020 and 4024; only values from schedule 2020 are reported because it is the preferred analytical schedule.